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FEBRUARY 04, 2000

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101193558A

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RECORDATION DATE: 10/29/1999

REEL/FRAME: 010352/0805
NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

FWLER, SUSAN JANET

DOC DATE: 10/18/1999

ASSIGNEE:

AMERSHAM PHARMACIA BIOTECH UK
LIMITED
AMERSHAM PLACE
BUCKINGHAMSHIRE HP7 9NA, ENGLAND

SERIAL NUMBER: 09370743
PATENT NUMBER:

FILING DATE: 08/09/1999
ISSUE DATE:

SHAREILL COLES, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

RECEIVED

FEB 11 2000

KIRKPATRICK & LOCKHART LLP

DOCKETED

FEB 15 2000

TERRI WATSON

11-10/249
[FORM PTO-1619A

Expires 06/30/99

OMB 0651-0027

11-04-1999



101193558

U.S. Department of Commerce

Patent and Trademark Office

PATENT

OCT 29 1999

RECORDATION FORM COVER SHEET
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Submission Type

☒ New☐ Resubmission (Non-Recordation)

Document ID #

☐ Correction of PTO Error

Reel #

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Conveyance Type

☒ Assignment☐ Security Agreement☐ License☐ Change of Name☐ Merger☐ Other

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☐ Departmental File☐ Secret File

Conveying Party(ies)

☐ Mark if additional names of conveying parties attached

Name (line 1)

Susan Janet Fowler

Execution Date

Month Day Year

10/18/99

Name (line 2)

Second Party

Name (line 1)

Name (line 2)

Execution Date

Month Day Year

Receiving Party

☐ Mark if additional names of receiving parties attached

Name (line 1)

Amersham Pharmacia Biotech UK Limited

Name (line 2)

Address (line 1)

Amersham Place

Address (line 2)

Address (line 3)

Buckinghamshire

City

HP7 9NA England

State/Country

Zip Code

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11/04/1999 MTHAI1 00000074 09370743

01 FC:581

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PagesEnter the total number of pages of the attached conveyance document
including any attachments.# **Application Number(s) or Patent Number(s)**☐ Mark if additional numbers attached

Enter either the Patent Application Number or the Patent Number (DO NOT ENTER BOTH numbers for the same property).

Patent Application Number(s)

09/370743	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

Patent Number(s)

<input type="text"/>	<input type="text"/>	<input type="text"/>
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If this document is being filed together with a new Patent Application, enter the date the patent application was
signed by the first named executing inventor.

Month Day Year

Patent Cooperation Treaty (PCT)

PCT PCT PCT

Enter PCT application number
only if a U.S. Application Number
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Number of Properties

Enter the total number of properties involved.

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Amount for Properties Listed (37 CFR 3.41):

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Deposit Account

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Yes ☒No ☐**Statement and Signature**

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Christine R. Ethridge

Name of Person Signing

Signature

Date

October 29, 1999

Attorney's Docket No. 94363CIP **PATENT**

For: ☒ U.S. and/or ☒ Foreign Rights
For: ☒ U.S. Application or
☐ U.S. Provisional Application
For: ☐ U.S. Patent
For: ☐ PCT Application
By: ☒ Inventor(s) or ☐ Present Owner

ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNOR:

Inventor(s) or person(s) or
entity(ies) who own the
invention

Susan Janet Fowler
(type or print name(s) of ASSIGNOR(S))

10 Bayleys Hatch, South Heath, Great Missenden
Address

Buckinghamshire, HP169QG, England

United Kingdom
Nationality

(if assignment is by person or entity to whom invention was previously assigned
and this was recorded in PTO, add the following)

Recorded on _____

Reel _____

Frame _____

hereby sells, assigns and transfers to

ASSIGNEE:

Amersham Pharmacia Biotech UK Limited
(type or print name(s) of ASSIGNEE(S))

Amersham Place
Address Little Chalfont

Buckinghamshire HP7 9NA, England

(a United Kingdom corporation)
Nationality

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

☒ the entire right, title and interest

☐ an undivided _____ percent (_____ %) interest for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

☒ and in all foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in the invention entitled: **DIFFERENCE DETECTION METHODS USING MATCHED MULTIPLE DYES**

Name of Inventor: Susan Janet Fowler

(check and complete (a), (b), (c), (d), (e), (f) or (g))

and which is found in

(a) ☐ U.S. patent application executed on even date herewith

(b) ☐ U.S. patent application executed on _____

(c) ☐ U.S. provisional application naming the above inventor(s) for the above-entitled invention

☐ Express mail label no.: _____

Mailed: _____

☐ To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.

(d) ☒ U.S. application no.: 09/370,743 Filed: August 9, 1999

(e) ☐ International application no. PCT/ _____ / _____

(f) ☐ U.S. patent no. _____ issued _____

☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (g), if foreign application(s) is also being assigned)

(g) ☒ and any legal equivalent thereof in a foreign country, including the right to claim priority

and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, I/We have hereunto set hand and seal this 18th day of October 1999.
Date of Signing

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

Date:

S J Fowler
Signature of ASSIGNOR(S)

Date:

Susan Janet Fowler

Date:

18th October 1999

Date:

(if ASSIGNOR is a legal entity, complete the following information)

(type or print the name of the above person
authorized to sign on behalf of ASSIGNOR)

Title

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

☐ Notarization or Legalization Page Added.

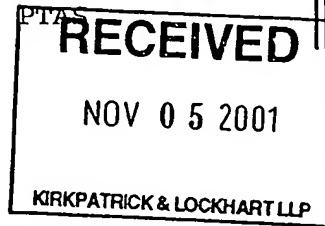


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OCTOBER 31, 2001

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HENRY W. OLIVER BUILDING
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RECORDATION DATE: 08/28/2001

REEL/FRAME: 012112/0777

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

AMERSHAM PHARMACIA BIOTECH UK
LIMITED

DOC DATE: 08/23/2001

ASSIGNEE:

CAMEGIE MELLON UNIVERSITY
5000 FORBES AVENUE
PITTSBURGH, PENNSYLVANIA 15213

SERIAL NUMBER: 09370743

FILING DATE: 08/09/1999

PATENT NUMBER:

ISSUE DATE:

DOROTHY BASMA, EXAMINER
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

08-31-2001

Form PTO-1595

(Rev. 03/01)

OMB No. 0651-0027 (exp. 5/31/2002)

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101830506

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U.S. Patent and Trademark Office

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original documents or copy thereof.

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Amersham Pharmacia Biotech UK Limited

Additional name(s) of conveying party(ies) attached? ☐ Yes ☒ No

3. Nature of conveyance:

- ☒ Assignment ☐ Merger
☐ Security Agreement ☐ Change of Name
☐ Other _____

828.01

Execution Date: August 23, 2001

2. Name and address of receiving party(ies)

Name: Carnegie Mellon University

Internal Address: _____

Street Address: 5000 Forbes Avenue

City: Pittsburgh State: PA Zip: 15213

Additional name(s) and address(es) attached? ☐ Yes ☒ No

4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: _____

A. Patent Application No.(s) 09/370,743

B. Patent No.(s)

Additional number(s) attached? ☐ Yes ☒ No

5. Name and address of party to whom correspondence concerning document should be mailed.

Name: Christine R. Ethridge Esq.

Internal Address: Kirkpatrick & Lockhart LLP

Henry W. Oliver Building

Street Address: 535 Smithfield Street

City: Pittsburgh State: PA Zip: 15222-2312

6. Total number of applications and patents involved: 1

7. Total fee (37 CFR 3.41).....\$ 40.00

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Christine R. Ethridge

Name of Person Signing

Christine R. Ethridge
Signature

8/28/01
Date

Total number of pages including cover sheet, attachments, and documents: 6

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08/30/2001 TDIAZ1 00000151 09370743

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ASSIGNMENT OF PATENT RIGHTS

WHEREAS, Amersham Pharmacia Biotech UK Limited, a corporation organized under the laws of the United Kingdom, having principal offices in Amersham Place, Little Chalfont, Buckinghamshire, HP7 9NA, ENGLAND (hereinafter "Assignor"), is the owner of United States Patent Application Serial No. 09/370,743, filed August 9, 1999 (the "Patent Rights"); and

WHEREAS, Carnegie Mellon University, a non profit educational institution organized under the laws of the Commonwealth of Pennsylvania, having principal offices in 5000 Forbes Avenue, Pittsburgh, Pennsylvania 15213-3890 (hereinafter "Assignee"), is desirous of acquiring all of Assignor's right, title and interest in the Patent Rights;

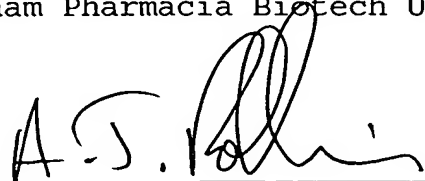
NOW, THEREFORE, for good and valuable consideration, the receipt and sufficiency of which by Assignor is hereby acknowledged, and intending to be legally bound hereby, the said Assignor does hereby sell, assign, transfer and set over unto said Assignee its entire right, title and interest in and to the Patent Rights and any and all reissues, divisionals, and continuations thereof; the same to be held and enjoyed by the Assignee, its successors and assigns, as fully as the same would have been held and enjoyed by the Assignor had this assignment not been made.

Assignor agrees that it will, upon request, execute and deliver to Assignee any and all additional papers and generally do all other and further lawful acts deemed necessary by said Assignee to document and record the assignment of the Patent Rights and to otherwise carry out the terms of this Agreement.

EXECUTED this 23 day of AUGUST, 2001.

Amersham Pharmacia Biotech UK Limited

By: _____



Title: VICE President, Global I P.

Attest: _____



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Minden et al.

Application No.: 09/370,743
Filed: August 9, 1999

Group No.: 1600
Examiner: L. Cook

For: DIFFERENCE DETECTION METHODS USING MATCHED MULTIPLE DYES

Box: Assignment
Commissioner for Patents
Washington, DC 20231

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PATENT

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In re application of: Susan Janet Fowler

Application No.: 09/370,743

Group No.:1600

Filed: August 9, 1999

Examiner:

For: DIFFERENCE DETECTION METHODS USING MATCHED MULTIPLE DYES

Box: Assignment

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RECORDATION DATE: 10/29/1999

REEL/FRAME: 010352/0796
NUMBER OF PAGES: 6

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

MINDEN, JONATHAN

DOC DATE: 10/05/1999

ASSIGNOR:

WAGGONER, ALAN

DOC DATE: 10/06/1999

ASSIGNEE:

CARNEGIE MELLON UNIVERSITY
5000 FORBES AVENUE
PITTSBURGH, PENNSYLVANIA 15213

SERIAL NUMBER: 09370743
PATENT NUMBER:

FILING DATE: 08/09/1999
ISSUE DATE:

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Conveyance Type

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☐ Security Agreement

☐ License

☐ Change of Name

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☐ Other

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☐ Departmental File

☐ Secret File

Conveying Party(ies)

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Name (line 1) Jonathan Minden

Execution Date
Month Day Year

10/05/99

Name (line 2)

Second Party

Name (line 1) Alan Waggoner

Execution Date
Month Day Year

10/06/99

Name (line 2)

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Name (line 1) Carnegie Mellon University

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Name (line 2)

Address (line 1)

5000 Forbes Avenue

Address (line 2)

Address (line 3)

Pittsburgh

City

PA

State/Country

15213

Zip Code

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Correspondent Name and Address

Area Code and Telephone Number (412) 355-8619

Name

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Application Number(s) or Patent Number(s)☐ Mark if additional numbers attached

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Patent Application Number(s)

Patent Number(s)

09/370743

If this document is being filed together with a new Patent Application, enter the date the patent application was signed by the first named executing inventor.

Month Day Year

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PCT

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Number of Properties

Enter the total number of properties involved.

#

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Fee Amount

Amount for Properties Listed (37 CFR 3.41):

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Method of Payment:

Enclosed ☒Deposit Account ☐

Deposit Account

(Enter for payment by deposit account or if additional fees can be charged to the account.)

Deposit Account Number:

#

11-1110

Authorization to charge additional fees:

Yes ☒No ☐**Statement and Signature**

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Christine R. Ethridge

Name of Person Signing

Signature

Date

October 29, 1999

Attorney's Docket N . 94363CIP

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For: ☒ U.S. Application or

☐ U.S. Provisional Application

For: ☐ U.S. Patent

For: ☐ PCT Application

By: Multiple Inventors

ASSIGNMENT OF INVENTION (MULTIPLE INVENTORS)

In consideration of the payment by ASSIGNEE to ASSIGNOR of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

ASSIGNORS (Inventors):

Jonathan Minden
(type or print name of inventors)

1406 Browning Road
Pittsburgh, PA 15206 USA
Address Nationality

Alan Waggoner

234 Lytton Avenue
Pittsburgh, PA 15213 USA

hereby sells, assigns and transfers to

ASSIGNEE:

Carnegie Mellon University
(type or print name of ASSIGNEE)

5000 Forbes Avenue
Address

(a non-profit Pennsylvania organization)
Nationality

Pittsburgh, PA 15213

and the successors, assigns and legal representatives of the ASSIGNEE

(complete one of the following)

- ☒ the entire right, title and interest
- ☐ an undivided _____ percent (_____ %) interest for the United States and its territorial possessions

(check the following box, if foreign rights are also to be assigned)

☒ and in all foreign countries, including all rights to claim priority, in and to any and all improvements which are disclosed in the invention entitled: **DIFFERENCE DETECTION METHODS USING MATCHED MULTIPLE DYES**

(check and complete (a), (b), (c), (d), (e), (f) or (g))

and which is found in

- (a) ☐ U.S. patent application executed on even date herewith
- (b) ☐ U.S. patent application executed on _____
- (c) ☐ U.S. provisional application naming the above inventor(s) for the above-entitled invention
- ☐ Express mail label no.: _____

Mailed: _____

- ☐ To comply with 37 CFR 3.21 for recordal of this assignment, I, an ASSIGNOR signing below, hereby authorize and request my attorney to insert below the filing date and application number when they become known.
- (d) ☒ U.S. application no.: 09/370,743 filed on August 9, 1999
- (e) ☐ International application no. PCT / _____ / _____
filed on _____
- (f) ☐ U.S. patent no. _____ issued _____
- ☐ A change of address to which correspondence is to be sent regarding patent maintenance fees is being sent separately.

(also check (g), if foreign application(s) is also being assigned)

- (g) ☒ and any legal equivalent thereof in a foreign country, including the right to claim priority and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof.

ASSIGNOR hereby covenants that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment;

ASSIGNOR further covenants that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNOR and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof.

IN WITNESS WHEREOF, We have hereunto set hand and seal this _____ Date of signing

WARNING: The date of signing must be the same as the date of execution of the application, if item (a) was checked above.

Jonathan Minden
(type name of Inventor)

Alan Waggoner

Signature of INVENTOR

10/5/99

10/6/99

☐ Notarization or Legalization Page Added.

NOTE: No witnessing, notarization or legalization is necessary. If the assignment is notarized or legalized, then it will only be prima facie evidence of execution. 35 USC 261. Use next page if notarization is desired.

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Minden et al.

Application No.: 09/370,743

Group No.:1600

Filed: August 9, 1999

Examiner:

For: DIFFERENCE DETECTION METHODS USING MATCHED MULTIPLE DYES

Box: Assignment

Assistant Commissioner of Patents

Washington, D.C. 20231

EXPRESS MAIL CERTIFICATE

"Express Mail" label number EE432146630US

Date of Deposit October 29, 1999

I hereby certify that the following attached paper or fee

PTO FORM-1619A

ASSIGNMENT

CHECK PAYABLE TO PTO (For recordal fees)

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Box: Assignment, Assistant Commissioner of Patents, Washington, D.C. 20231.

Beth H. Retort

(Typed or printed name of person mailing paper or fee)

(Signature of person mailing paper or fee)

NOTE: Each paper must have its own certificate and the "Express Mail" label number as a part thereof or attached thereto. When, as here, the certification is presented on a separate sheet, that sheet must (1) be signed and (2) fully identify and be securely attached to the paper or fee it accompanies. Identification should include the serial number and filing date of the application as well as the type of paper being filed, e.g. complete application, specification and drawings, responses to rejection or refusal, notice of appeal, etc. If the serial number of the application is not known, the identification should include at least the name of the inventor(s) and the title of the invention.

NOTE: The label number need not be placed in each page. It should, however, be placed on the first page of each separate document, such as, a new application, amendment, assignment, and transmittal letter for a fee, along with the certificate of mailing by "Express Mail." Although the label number may be on checks, such a practice is not required. In order not to deface formal drawings it is suggested that the label number be placed on the back of each formal drawing or the drawings be accompanied by a set of informal drawings on which the label number is placed.

(Express Mail Certificat [8-3])

ATTORNEY'S DOCKET NO. 94363CIP

PATENT

COMBINED DECLARATION AND POWER OF ATTORNEY
(ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL,
CONTINUATION OR C-I-P)

As a below named inventor, I hereby declare that:

TYPE OF DECLARATION

This declaration is of the following type:

(check one applicable item below)

- ☒ original.
- ☐ design.
- ☐ supplemental.

NOTE: If the declaration is for an International Application being filed as a divisional, continuation or continuation-in-part application, do not check next item; check appropriate one of the last three items.

- ☐ national stage of PCT.

NOTE: If one of the following 3 items apply, then complete and also attach ADDED PAGES FOR DIVISIONAL, CONTINUATION OR C-I-P.

- ☐ divisional.
- ☐ continuation.
- ☒ continuation-in-part (C-I-P).

INVENTORSHIP IDENTIFICATION

WARNING: If the inventors are each not the inventors of all the claims, an explanation of the facts, including the ownership of all the claims at the time that the last claimed invention was made, should be submitted.

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am the original, first and sole inventor (*if only one name is listed below*) or an original, first and joint inventor (*if plural names are listed below*) of the subject matter that is claimed, and for which a patent I sought on the invention entitled:

TITLE OF INVENTION

DIFFERENCE DETECTION METHODS USING MATCHED MULTIPLE DYES

SPECIFICATION IDENTIFICATION

the specification of which:

(complete (a), (b) or (c))

(a) ☐ is attached hereto.

NOTE: "The following combinations of information supplied in an oath or declaration filed on the application filing date with a specification are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:

"(1) name of inventor(s), and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration on filing;

"(2) name of inventor(s), and attorney docket number which was on the specification as filed; or

"(3) name of inventor(s), and title which was on the specification as filed."

Notice of July 13, 1995 (1177 O.G. 60).

(b) ☒ was filed on August 9, 1999 as ☒ Serial No. 09/370.743
or ☐ _____ and was amended on
_____ (if applicable).

NOTE: Amendments filed after the original papers are deposited with the PTO that contain new matter are not accorded a filing date by being referred to in the declaration. Accordingly, the amendments involved are those filed with the application papers or, in the case of a supplemental declaration, are those amendments claiming matter not encompassed in the original statement of invention or claims. See 37 CFR 1.67.

NOTE: "The following combinations of information supplied in an oath or declaration filed after the filing date are acceptable as minimums for identifying a specification and compliance with any one of the items below will be accepted as complying with the identification requirement of 37 CFR 1.63:

"(1) name of inventor(s), and application number (consisting of the series code and the serial number, e.g., 08/123,456);

"(2) name of inventor(s), serial number and filing date;

"(3) name of inventor(s) and attorney docket number which was on the specification as filed;

"(4) name of inventor(s), title which was on the specification as filed and filing date;

"(5) name of inventor(s), title which was on the specification as filed and reference to an attached specification which is both attached to the oath or declaration at the time of execution and submitted with the oath or declaration; or

"(6) name of inventor(s), title which was on the specification as filed and accompanied by a cover letter accurately identifying the application for which it was intended by either the application number (consisting of the series code and the serial number; e.g., 08/123,456), or serial number and filing date. Absent any statement(s) to the contrary, it will be presumed that the application filed in the PTO is the application which the inventor(s) executed by signing the oath or declaration."

Notice of July 13, 1995 (1177 O.G. 60).

- (c) ☐ was described and claimed in PCT International Application No. _____,
filed on _____ and as amended under PCT Article 19 on
_____ (if any).

ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, § 1.56.

(also check the following items, if desired)

- ☒ and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable examiner would consider it important in deciding whether to allow the application to issue as a patent, and
- ☒ in compliance with this duty, there is attached an information disclosure statement, in accordance with 37 CFR 1.98.

PRIORITY CLAIM (35 U.S.C. § 119(a)-(d))

I hereby claim foreign priority benefits under Title 35, United States Code, § 119(a)-(d) of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

(complete (d) or (e))

- (d) ☒ no such applications have been filed.
- (e) ☐ such applications have been filed as follows.

NOTE: Where item (c) is entered above and the International Application which designated the U.S. itself claimed pr check item (e), enter the details below and make the priority claim.

**PRIOR FOREIGN/PCT APPLICATION(S) FILED WITHIN 12 MONTHS
(6 MONTHS FOR DESIGN) PRIOR TO THIS APPLICATION
AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. § 119(a)-(d)**

COUNTRY (OR INDICATE IF PCT)	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 37 USC 119
			<input type="checkbox"/> YES NO <input type="checkbox"/>
			<input type="checkbox"/> YES NO <input type="checkbox"/>
			<input type="checkbox"/> YES NO <input type="checkbox"/>
			<input type="checkbox"/> YES NO <input type="checkbox"/>
			<input type="checkbox"/> YES NO <input type="checkbox"/>

**CLAIM FOR BENEFIT OF PRIOR U.S. PROVISIONAL APPLICATION(S)
(34 U.S.C. § 119(e))**

I hereby claim the benefit under Title 35, United States Code, § 119(e) of any United States provisional application(s) listed below:

PROVISIONAL APPLICATION NUMBER

FILING DATE

**CLAIM FOR BENEFIT OF EARLIER US/PCT APPLICATION(S)
UNDER 35 U.S.C. 120**

- ☒ The claim for the benefit of any such applications are set forth in the attached ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR CONTINUATION-IN PART (C-I-P) APPLICATION.

**ALL FOREIGN APPLICATION(S), IF ANY, FILED MORE THAN 12 MONTHS
(6 MONTHS FOR DESIGN) PRIOR TO THIS U.S. APPLICATION**

NOTE: *If the application filed more than 12 months from the filing date of this application is a PCT filing forming the basis for this application entering the United States as (1) the national stage, or (2) a continuation, divisional, or continuation-in-part, then also complete ADDED PAGES TO COMBINED DECLARATION AND POWER OF ATTORNEY FOR DIVISIONAL, CONTINUATION OR C-I-P APPLICATION for benefit of the prior U.S. or PCT application(s) under 35 U.S.C. § 120.*

POWER OF ATTORNEY

I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Carol I. Bordas, Reg. No. 37,284; George D. Dickos, Reg. No. 30,048; Thomas J. Edgington, Reg. No. 34,324; Christine R. Ethridge, Reg. No. 30,557; Richard W. James, Reg. No. 43,690, James A. Joyce, Reg. No. 43,700; Mark G. Knedeisen, Reg. No. 42,747, William E. Kuss, Reg. No. 41,919, James R. Kyper, Reg. No. 27,346; Mark R. Leslie, Reg. No. 36,360; Franklin B. Molin, Reg. No. 37,397; Robert A. Muha, Reg. No. 44,249; Jonathan C. Parks, Reg. No. 40,120, Darren E. Wolf, Reg. No. 36,310 and Robert D. Yeager, Reg. No. 25,047

☐ Attached, as part of this declaration and power of attorney, is the authorization of the above-named attorney(s) to accept and follow instructions from my representative(s).

SEND CORRESPONDENCE TO

*Christine R. Ethridge, Esquire
Kirkpatrick & Lockhart LLP
Henry W. Oliver Building
535 Smithfield Street
Pittsburgh, PA 15222-2312*

DIRECT TELEPHONE CALLS TO:

*(Name and telephone number)
Christine R. Ethridge, Esquire
(412) 355-8619*

DECLARATION

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SIGNATURE(S)

NOTE: Carefully indicate the family (or last) name, as it should appear on the filing receipt and all other documents.

Full name of sole or first inventor

Jonathan Minden
(GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME)
Inventor's signature [Signature]
Date 10/5/99 Country of Citizenship USA
Residence Pittsburgh, PA 15206
Post Office Address 5821 Gallowhill Street, Pittsburgh, PA 15206
1406 Browning Road

Full name of second joint inventor, if any

Alan Waggoner
(GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME)
Inventor's signature [Signature]
Date 10/6/99 Country of Citizenship USA
Residence Pittsburgh, PA 15208
Post Office Address 421 South Lexington Avenue, Pittsburgh, PA 15208
234 Lytton Ave, Pittsburgh PA 15213
10/28/99 [Signature]

Full name of third joint inventor, if any

Susan Janet Fowler
(GIVEN NAME) (MIDDLE INITIAL OR NAME) FAMILY (OR LAST NAME)
Inventor's signature [Signature]
Date 10/18/99 Country of Citizenship United Kingdom
Residence Buckinghamshire HP169QG, England
Post Office Address 10 Bayleys Hatch, South Heath, Great Missenden, Buckinghamshire,
HP169QG, England

(check proper box(es) for any of the following added page(s)
that form a part of this declaration)

☐ **Signature** for fourth and subsequent joint inventors. *Number of pages added*
_____.

* * *

☐ **Signature** by administrator(trix), or legal representative for deceased or
incapacitated inventor. *Number of pages added* _____.

* * *

☐ **Signature** for inventor who refuses to sign or cannot be reached by person
authorized under 37 CFR 1.47. *Number of pages added* _____.

☐ Added page for **signature** by one joint inventor on behalf of deceased inventor(s)
where legal representative cannot be appointed in time. (37 CFR 1.47)

☒ Added pages to combined declaration and power of attorney for divisional,
continuation, or continuation-in-part (C-I-P) application.

☒ Number of pages added 2

* * *

☐ Authorization of attorney(s) to accept and follow instructions from representative.

* * *

*(if no further pages form a part of this Declaration,
then end this Declaration with this page and check the following item)*

☐ This declaration ends with this page.

(Declaration and Power of Attorney [1-1]--page 7 of 7)

Attorney's Docket No. 94363CIP

**ADDED PAGE TO COMBINED DECLARATION AND POWER OF
ATTORNEY FOR DIVISIONAL, CONTINUATION OR C-I-P APPLICATION**

(complete this part only if this is a divisional, continuation or C-I-P application)

**CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S) UNDER
35 U.S.C. 120**

I hereby claim the benefit under Title 35, United States Code, § 120 of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information that is material to the examination of this application, namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

PRIOR U.S. APPLICATIONS OR PCT INTERNATIONAL APPLICATIONS DESIGNATING THE U.S. FOR BENEFIT UNDER 35 USC 120:					
U.S. APPLICATIONS			Status (Check one)		
U.S. APPLICATIONS	U.S. FILING DATE		Patented	Pending	Abandoned
1.0 8 /425,480	April 20, 1995			X	
2.0 /					
3.0 /					
PCT APPLICATIONS DESIGNATING THE U.S.					
PCT APPLI- CATION NO.	PCT FILING DATE	U.S. SERIAL NOS. ASSIGNED (if any)			
4.					
5.					
6.					

(Added Page to Combined Declaration and Power of Attorney for Divisional, Continuation or C-I-P
Application [1-2.1]—page 1 of 2)

(Added Page to Combined Declaration and Power of Attorney [1-2.1]—page 1 of 2)

35 USC 119 PRIORITY CLAIM, IF ANY, FOR ABOVE LISTED U.S./PCT APPLICATIONS

ABOVE APPLICATION NO.	DETAILS OF FOREIGN APPLICATION FROM WHICH PRIORITY CLAIMED UNDER 35 USC 119		
	Country and Application No.	Date of filing (day, month, year)	Date of issue (day, month, year)
1.			
2.			
3.			
4.			
5.			
6.			

(Added Page to Combined Declaration and Power of Attorney [1-2.1]--page 2 of 2)